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AMENDMENTS TO THE CLAIMS:

This listing of the claims will replace all prior versions, and listings, of the claims in this application.

Claims 1-12 have been cancelled.

Listing of Claims:

1. (Cancelled).
2. (Cancelled).
3. (Cancelled).
4. (Cancelled).
5. (Cancelled).
б. (Cancelled).
7. (Cancelled).
B. (Cancelled).
9. (Cancelled).
10. (Cancelled).

11. (Cancelled).

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12. (Cancelled).

13. (Previously Presented) A storage appliance comprised of a first interface for being coupled to

a host and a second interface for being coupled to a virtual storage device, said storage appliance

further comprising a controller operating in accordance with a computer program comprised of

program instructions stored on a controller readable media, said program instructions comprised

of:

first program instructions to generate a set of parameter-tuples, each parameter-tuple of the set

comprising a data unit and a different combination of a data size parameter and a block

parameter;

second program instructions, responsive to each parameter-tuple in the set of parameter-tuples, to

perform a write operation to the virtual storage device with the parameter-tuple as write

parameters, and to make and record a performance measurement of the write operation; and

third program instructions to identify a parameter-tuple associated with a write operation having

a best recorded performance measurement, and to configure the storage appliance such that a

value of a stripe size attribute associated with the virtual storage device is set to the value of the

data size parameter of the identified parameter-tuple, and such that a value of a stripe alignment

attribute associated with the virtual storage device is set to the value of the block parameter of the

identified parameter-tuple.

14. (Previously Presented) A storage appliance as in claim 13, where configuring the storage

appliance results in the storage appliance performing stripe aligned write operations using a

storage appliance memory as a cache.

15. (Previously Presented) A storage appliance as in claim 13, where making a performance

measurement comprises measuring an amount of time required to complete the write operation.

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16. (Previously Presented) A storage appliance as in claim 13, where identifying the parameter-tuple associated with the write operation having the best recorded performance measurement comprises identifying the write operation that takes a least amount of time to complete.

17. (Previously Presented) A storage appliance as in claim 13, where said virtual storage device comprises a RAID storage system that includes a RAID controller coupled to a plurality of storage devices.

18. (Previously Presented) A storage appliance as in claim 13, where said storage appliance comprises a part of a switch of a storage area network.

19. (Previously Presented) A storage appliance as in claim 13, where at least said second and third program instructions are executed when said storage appliance is otherwise idle.

20. (Previously Presented) A storage appliance as in claim 13, further comprising a memory for being coupled to said virtual storage device, where said memory comprises a cache.

21. (Previously Presented) A storage appliance as in claim 13, further comprising a memory for being coupled to said virtual storage device, where said memory comprises an input buffer.

22. (Previously Presented) A storage appliance as in claim 13, further comprising a memory for being coupled to said virtual storage device, where said memory comprises an output buffer.

23. (Previously Presented) A storage appliance comprised of a first interface for being coupled to a host and a second interface for being coupled to a virtual storage device, said storage appliance further being comprised of means for generating a set of parameter-tuples, each parameter-tuple of the set comprising a data unit and a different combination of a data size parameter and a block parameter; means, responsive to each parameter-tuple in the set of parameter-tuples, for performing a write operation to the virtual storage device with the parameter-tuple as write parameters, and for making and recording a performance measurement of the write operation;

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and means for identifying a parameter-tuple associated with a write operation having a best recorded performance measurement, and for configuring the storage appliance such that a value of a stripe size attribute associated with the virtual storage device is set to the value of the data size parameter of the identified parameter-tuple, and such that a value of a stripe alignment attribute associated with the virtual storage device is set to the value of the block parameter of the identified parameter-tuple.

24. (Previously Presented) A storage appliance as in claim 23, where operation of said means for configuring the storage appliance results in the storage appliance performing stripe aligned write operations using a storage appliance memory as a cache.

25. (Previously Presented) A storage appliance as in claim 23, where said means for making a performance measurement measures an amount of time required to complete the write operation.

26. (Previously Presented) A storage appliance as in claim 23, where said means for identifying the parameter-tuple associated with the write operation having the best recorded performance measurement operates to identify the write operation that takes a least amount of time to complete.

27. (Previously Presented) A storage appliance as in claim 23, where said virtual storage device comprises a RAID storage system that includes a RAID controller coupled to a plurality of storage devices.

28. (Previously Presented) A storage appliance as in claim 23, where said storage appliance comprises a part of a switch of a storage area network.